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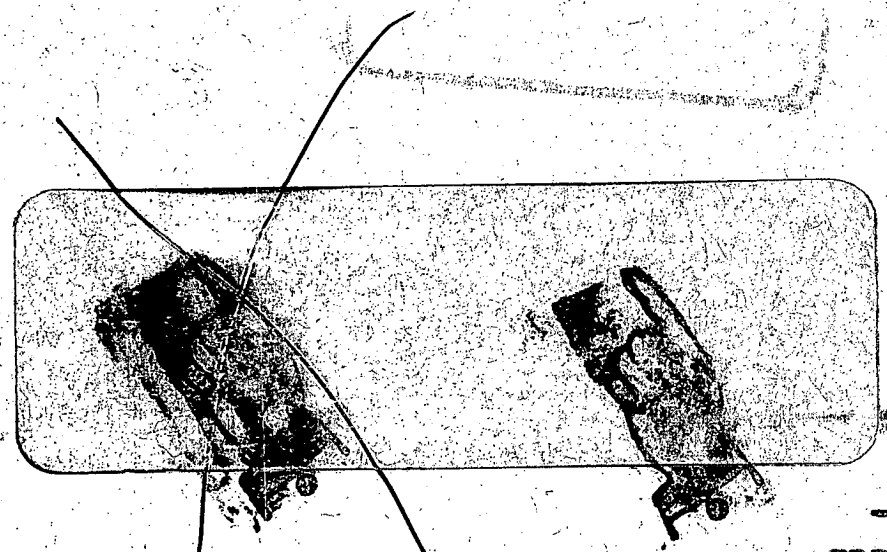

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UNITED STATES DEPARTMENT OF COMMERCE
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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/916,095	07/26/2001	Garry Chinn	M-9333 US	8448

7590 07/25/2005

EXAMINER
TRAN, QUOC A

F. Jason Far-Hadian
SKJERVEN MORRILL MacPHERSON LLP
25 Metro Drive, Suite 700
San Jose, CA 95110-1349

ART UNIT	PAPER NUMBER
2176	

DATE MAILED: 07/25/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary	Application No.	Applicant(s)	
	09/916,095	CHINN ET AL.	
	Examiner	Art Unit	
	Quoc A. Tran	2176	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

1)☒ Responsive to communication(s) filed on *26 July 2001*.

2a)☐ This action is **FINAL**. 2b)☒ This action is non-final.

3)☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

4)☒ Claim(s) *1-63* is/are pending in the application.

4a) Of the above claim(s) *13-15,18-20 and 44-63* is/are withdrawn from consideration.

5)☐ Claim(s) _____ is/are allowed.

6)☒ Claim(s) *1-12,16,17 and 21-43* is/are rejected.

7)☐ Claim(s) _____ is/are objected to.

8)☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

9)☐ The specification is objected to by the Examiner.

10)☐ The drawing(s) filed on _____ is/are: a)☐ accepted or b)☐ objected to by the Examiner.

Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).

Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).

11)☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

12)☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).

a)☐ All b)☐ Some * c)☐ None of:

1.☐ Certified copies of the priority documents have been received.

2.☐ Certified copies of the priority documents have been received in Application No. _____.

3.☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

1) ☒ Notice of References Cited (PTO-892)
2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
3) ☒ Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date *10/19/2001*.
4) ☐ Interview Summary (PTO-413) Paper No(s)/Mail Date. _____ .
5) ☐ Notice of Informal Patent Application (PTO-152)
6) ☐ Other: _____.

DETAILED ACTION

1. This action is responsive to communication: amendment filed 05/09/2005 with recognition of an original filing date of 07/26/2001.

2. Applicant's election with traverse, Group I (Claims 1-12, 16-17 and 21-43). The traversal is on the grounds that it should be no undue burden on the Examiner to consider all claims in the single application. In addition Applicant argues that the Examiner has failed to shown claims are independent and distinct.

This is not found persuasive:

The burden is due to the separate searches required because of the different classification indicated in the groupings.

Second the combinations disclosed as usable together in a subcombination or element of combination.

Invention (I) has separate utility such as hierarchical control. Independent claim in group I are: 1, 21 and 39.

Invention (II) has separately utility such as a structured document. Independent claim in group II is: 13.

Invention (III) has separate utility such as fitting data into field on form. Independent claim in group III are: 44, 60 and 61.

Because these inventions are distinct for the reasons given above and have acquired a separate status in the art as shown by their different classification, restriction for examination. The requirement is still deemed proper and is therefore made FINAL.

Claim Rejections - 35 USC § 101

3. 35 U.S.C. 101 reads as follows:

> Whoever invents or discovers any new and useful process, machine, manufacture, or composition of matter, or any new and useful improvement thereof, may obtain a patent therefor, subject to the conditions and requirements of this title.

4. Claims 1-12, 16-17 and 21-43 are rejected under 35 U S.C. 101 because the claimed invention is directed to non-statutory subject matter. Claims 1-12, 16-17 and 21-43 set forth non-functional descriptive material but fail to set forth physical structures or materials comprising of hardware or a combination of hardware and software within the technological arts (i.e. a computer) to produce a "useful, concrete and tangible" result. For example, Claims 1-12, 16-17 and 21-43 the "method" reads on a mental construct/abstract idea or at best a computer program, per se. The language such as " A method comprising...and A method comprising of navigating a navigation tree... do not clearly define structural elements and are not tangibly embodied on a computer readable medium. Claims 1-12, 16-17 and 21-43 are interpreted as software per se, abstract ideas or mental construct and not tangibly embodied on a computer readable medium or hardware.

Claim Rejections - 35 USC § 103

5. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

> (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains.

Patentability shall not be negatived by the manner in which the invention was made.

6. **Claims 1-12, 16-17 and 21-43** are rejected under 35 U.S.C. 103(a) as being unpatentable over Ferrel et al US005878421A - filed 07/17/1995 (hereinafter Ferrel), in view of Saldanha et al. US006714939B2 - filed 01/08/2001 (hereinafter Saldanha).

In regard to independent claim 1, providing a navigation tree comprising a semantic, hierarchical structure, (Ferrel at col. 17, lines 30-45 and Fig. 7 of 17, discloses an information map, wherein the left panel of the display window shows a hierarchy of containers (i.e. only containers which are associated to the contents of the containers in the right panel) of one project for a publisher and allows user to navigate though it), **having one or more paths associated with content** (Ferrel at col. 17, lines 30-45 and Fig. 7 of 17, discloses an information map, wherein the left panel of the display window shows a hierarchy of containers (i.e. only containers which are associated to the contents of the containers in the right panel), wherein an information map from containers which are associated to the contents of the containers, which is suggested in the broadest reasonable interpretation as claimed (i.e. one or more path associated with content), **of a conventional markup language document** (Ferrel at col. 23, lines 20-45, discloses an information map, wherein the text style for the section name is set from the style sheet associated with sections 1-9 based on the current level at state 586. It is appreciated by a person of ordinary skill in the art that style sheet is suggested reasonably equivalent to a text file containing code to apply semantic such as page layout specification to an HTML (Hyper Text Markup Language) as claimed (i.e. of a conventional markup language document)), **receiving a request to access the content**

(as taught by Ferrel at col. 23, lines 40-45), **and responsive to the request** (Ferrel at col. 23, lines 25-30), **traversing a path in the navigation tree, if the request includes at least one keyword of the vocabulary** (Ferrel at col. 21, lines 5-25, discloses the viewer traverses the link and finds the first page associated with that section and displays it, and also see Ferrel at col. 23, lines 20-45, discloses the text style for the section name is set from the style sheet associated with sections 1-9 based on the current level at state 586. It is appreciated by a person of ordinary skill in the art that style sheet is suggested reasonably equivalent to a text file containing code to apply semantic such as page layout specification to an HTML (Hyper Text Markup Language), which is reasonably equivalent to least one keyword of the vocabulary as claimed).

Ferrel does not explicitly teaches, **... grammar...** however (Saldanha taught at col. 7, line 20 through col. 8, line 10, discloses the architecture of the content engine in FIG. 2, the content engine comprises: a parser, a mapper, and a Domain Markup Language ("DML") generator, wherein the parser parses the text input by the user into all possible parses, based on the grammar stored in the grammar storage, the mapper accesses all the parses of the text input by the user produced by the parser, the DML generator reduces the structure produced by the mapper to a simpler form. The generation of the DML (Domain Markup Language) is directed, the application takes the DML input and uses it as a query on an underlying database, to retrieve entries (e.g., products) that satisfy the query, and hence match the user's interests (to the extent that such interest is well expressed in the original text input), which is suggested in the broadest reasonable interpretation as claimed, wherein a parser, a mapper, and a Domain Markup Language ("DML") generator and text input query, which is suggested reasonably equivalent to

paths associated with content of a conventional markup language document including one or more keywords).

It would have been obvious to a person of ordinary skill in the art at the time the invention was made to have modified Ferrel, discloses an information map, to include a means of a parsing, mapping, and a Domain Markup Language ("DML") generator, wherein the parser parses the text input by the user into all possible parses, based on the grammar stored in the grammar storage, the mapper accesses all the parses of the text input by the user. One of the ordinary skills in the art would have been motivated to enable the mapping of grammatical parse of a sentence and the ability to attach a natural markup language interface with minimal developer effort (as taught by Saldanha at col. 7, line 25 through col. 8, line 15).

In regard to independent claim 21, incorporate substantially similar subject matter as cited in claim 1 above, and further view of the following and is similarly rejected along the same rationale, **visiting a first node in the navigation tree; moving from the first node to a second node in the navigation tree in response to the user request, the second node** (Ferrel at col. 2, lines 60-67, discloses an information map, wherein a navigable outline for a title structure comprising a plurality of related nodes, the method comprising the steps of (a) accessing the title structure; (b) finding a node in the title structure; (c) creating a navigation link for the node; and (d) recursively descending the title structure for steps (b) and (c)), Ferrel does not explicitly teaches, **and expanding the grammar by adding to the vocabulary the keyword of the second node,** however (Saldanha taught at col. 12, line 50 through col. 13, line 15 discloses the architecture of "grammar" shows in Fig. 3A –3C, wherein the DAG

(Directed Acrylic Graph) expanding from 9 nodes to 14 nodes, for example, in the sentence "The boy helped the girl with the suitcase," the modifier "with the suitcase" can either apply to the girl, or to the act of helping. In general, a modifier can modify any part of the sentence. The above teaching read in the broadest reasonable interpretation as claimed, wherein DAG's node expanding from 9 to 14 by modify the nodes such as, adding "with the suitcase" to "The boy helped the girl with the suitcase," which is suggested reasonably equivalent to expanding the grammar by adding to the vocabulary the keyword of the second node as claimed).

It would have been obvious to a person of ordinary skill in the art at the time the invention was made to have modified Ferrel, discloses an information map, to include a means of a parsing, mapping, and a Domain Markup Language ("DML") generator, wherein the parser parses the text input by the user into all possible parses, based on the grammar stored in the grammar storage, the mapper accesses all the parses of the text input by the user of Saldanha. One of the ordinary skills in the art would have been motivated to enable the mapping of grammatical parse of a sentence and the ability to attach a natural markup language interface with minimal developer effort (as taught by Saldanha at col. 7, line 25 through col. 8, line 15).

In regard to independent claim 39, incorporate substantially similar subject matter as cited in claims 1 and 21 above, and is similarly rejected along the same rationale.

In regard to dependent claim 2, incorporate substantially similar subject matter as cited in claims 1 and 21 above, and in further view of the following and is similarly rejected along the same rationale, **wherein the vocabulary dynamically changes** (Ferrel

at col. 23, lines 20-60, discloses an information map, wherein the set content values is located at state 596 and the text style is located in the story's associated style sheet based upon the values at state 598. Next, the function 568 creates a link and registers it with the viewer at state 600. It is appreciated by a person of ordinary skill in the art that style sheet is suggested reasonably equivalent to a text file containing code to apply semantic such as page layout specification to an HTML (Hyper Text Markup Language), which is suggested reasonably equivalent to least one keyword of the vocabulary as claimed and associated style sheet based upon the values at different state is suggested reasonably equivalent to dynamically changes as claimed).

In regard to dependent claims 3, 5, 6-8, 22 and 24 incorporate substantially similar subject matter as cited in claim 1 above, and are similarly rejected along the same rationale.

In regard to dependent claim 9, incorporate substantially similar subject matter as cited in claims 1 and 21 above, and in further view of the following and is similarly rejected along the same rationale**, narrowing the vocabulary of the grammar if the request does not include at least one keyword of the vocabulary** (Ferrel at col. 23, lines 20-60, (Ferrel at col. 23, lines 20-60, discloses an information map, wherein the set content values is located at state 596 and the text style is located in the story's associated style sheet based upon the values at state 598. Next, the function 568 creates a link and registers it with the viewer at state 600. It is appreciated by a person of ordinary skill in the art that style sheet is suggested reasonably equivalent to a text file containing code to apply semantic such as page layout specification to an HTML (Hyper Text Markup Language), which is suggested reasonably equivalent to least one keyword of the

vocabulary as claimed and associated style sheet based upon the values at different state is suggested reasonably equivalent to narrowing changes as claimed, also see the Specification page 6, lines 21-30, discloses dynamically build the navigation grammar based on keywords or other vocabulary included to streamline and narrow the vocabulary included in the grammar to those keywords and commands that are relevant to the tree branch being traversed at the time).

It would have been obvious to a person of ordinary skill in the art at the time the invention was made to have modified Ferrel, discloses an information map, to include a means of a parsing, mapping, and a Domain Markup Language ("DML") generator, wherein the parser parses the text input by the user into all possible parses, based on the grammar stored in the grammar storage, the mapper accesses all the parses of the text input by the user of Saldanha. One of the ordinary skills in the art would have been motivated to enable the mapping of grammatical parse of a sentence and the ability to attach a natural markup language interface with minimal developer effort (as taught by Saldanha at col. 7, line 25 through col. 8, line 15).

In regard to dependent claim 10, incorporate substantially similar subject matter as cited in claims 1 and 2 above, and is similarly rejected along the same rationale.

In regard to dependent claim 11, incorporate substantially similar subject matter as cited in claims 1 and 21 above, and is similarly rejected along the same rationale.

In regard to dependent claim 12, wherein the conventional markup language is Hyper Text Markup Language (Ferrel at col. 23, lines 20-45, discloses an information map, wherein the text style for the section name is set from the style sheet associated with sections 1-9 based on the current level at state 586. It is appreciated by a

person of ordinary skill in the art that style sheet is suggested reasonably equivalent to a text file containing code to apply semantic such as page layout specification to an HTML (Hyper Text Markup Language).

In regard to dependent claim 16, accepting the request if the first confidence score is greater than a recognition threshold (Ferrel at col. 23, line 60 through col. 24, line 5, discloses an information map, wherein the text style for the section name is set from the style sheet associated with the current level at state based upon the decision state and recursive call of the level is or is not at the maximum section depth, which is read in the broadest reasonable interpretation as claimed, wherein decision state is suggested reasonably equivalent to accepting the request if , recursive call of the level is or is not at the maximum section depth is suggested reasonably equivalent to score is greater than a recognition threshold as claimed).

In regard to dependent claims 17 and 25-26, incorporate substantially similar subject matter as cited in claims 1 and 16 above, and are similarly rejected along the same rationale.

In regard to dependent claims 27-28, incorporate substantially similar subject matter as cited in claims 1, 16 and 21 above, and are similarly rejected along the same rationale.

In regard to dependent claims 29-38, incorporate substantially similar subject matter as cited in claims 1 and 21 above, and are similarly rejected along the same rationale.

In regard to dependent claims 40-43, incorporate substantially similar subject matter as cited in claims 1, 7 and 21 above, and are similarly rejected along the same rationale.

7. **Claims 4 and 23** is rejected under 35 U.S.C. 103(a) as being unpatentable over Ferrel et al US005878421A - filed 07/17/1995 (hereinafter Ferrel), in view of Saldanha et al. US006714939B2 - filed 01/08/2001 (hereinafter Saldanha), further in view of MacKenty et al US006088675A – filed 03/23/1999 (hereinafter MacKenty),

In regard to dependent claim 4, Ferrel and Saldanha do not explicitly teaches, **wherein the request is in the form of speech**, however (MacKenty at col. 17, lines 30-45 and Fig. 7 of 17, discloses an SGML document, which can be in the form of keyboard input, voice commands, or any other kind of input. In the preferred embodiment, the input is from a numeric keypad, such as that on a standard personal computer keyboard. The input selects one of several typical navigation functions).

It would have been obvious to a person of ordinary skill in the art at the time the invention was made to have modified Ferrel, discloses an information map, to include a means of a parsing, mapping, and a Domain Markup Language ("DML") generator, wherein the parser parses the text input by the user into all possible parses, based on the grammar stored in the grammar storage, the mapper accesses all the parses of the text input by the user of Saldanha, further to include a means of for controlling, navigating the SGML document using from key board or voice command of MacKenty. One of the ordinary skills in the art would have been motivated to provide the auditory presentation of documents, and, more particularly to communicating by sound the contents of

documents coded in SGML for visually impaired individuals (as taught by MacKenty at col. 1, lines 9- 50).

In regard to dependent claim 23, Ferrel and Saldanha do not explicitly teaches, **providing an error message, if the user request is not recognized**, however (MacKenty at col. 7, lines 25-30, discloses an errors message generators (i.e. the text of an error message is sent to the speech synthesizer for presentation to the user, and the Boolean value returned by the function indicates that the reader should not be started).

It would have been obvious to a person of ordinary skill in the art at the time the invention was made to have modified Ferrel, discloses an information map, to include a means of a parsing, mapping, and a Domain Markup Language ("DML") generator, wherein the parser parses the text input by the user into all possible parses, based on the grammar stored in the grammar storage, the mapper accesses all the parses of the text input by the user of Saldanha, further to include a means of for controlling, navigating the SGML document using from key board or voice command of MacKenty. One of the ordinary skills in the art would have been motivated to provide the auditory presentation of documents, and, more particularly to communicating by sound the contents of documents coded in SGML for visually impaired individuals (as taught by MacKenty at col. 1, lines 9- 50), and to indicates that the reader should not be started the application since the tag of the design location is not found (as taught by MacKenty at col. 7, lines 25-30).

Conclusion

8. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

MobilHTML/XML/CSS/HTTP-

www.w3.org/Mobile/1998/Workshop/Slide/MEI/mobileHTMLarch.ppt - 07/09/1998

Uppaluru US005915001A filed 11/14/1996

7. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Quoc A. Tran whose telephone number is (571) 272-4103. The examiner can normally be reached on Monday through Friday from 11AM to 7PM EST.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Herndon R. Heather can be reached on (571) -272-4136. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Quoc A, Tran
Patent Examiner
Technology Center 2176

July 16, 2005

William L. Bashore
WILLIAM BASHORE
PRIMARY EXAMINER
7/21/2005

U.S. Department of Commerce, Patent and Trademark Office	Atty Docket No.	Serial No.
	M-9333 US	09/916,095
INFORMATION DISCLOSURE STATEMENT BY APPLICANT	Applicants:	
(Use several sheets if necessary)	Chinn, et al.	
	Filing Date	Group
	July 26, 2001	~~2171~~ 2176

OIPE 2112
OCT 19 2001
PATENT & TRADEMARK OFFICE

U.S. Patent Documents

*Examiner Initial		Document Number	Date	Name	Class	Subclass	Filing Date If Appropriate
	AA	4,053,710	10/11/77	Advani et al.	179	1 SB	
	AB	4,253,157	02/24/81	Kirschner et al.	364	900	
	AC	4,534,056	08/06/85	Feilchenfeld et al.	381	42	
	AD	4,648,061	03/03/87	Foster	264	900	
	AE	4,653,097	03/24/87	Watanabe et al.	381	42	
	AF	4,659,877	04/21/87	Dorsey et al.	379	88	
	AG	4,763,278	08/09/88	Rajasekaran et al.	364	513.5	
	AH	4,785,408	11/15/88	Britton et al.	364	513.5	
	AI	4,788,643	11/29/88	Trippe et al.	364	407	
	AJ	4,831,551	05/16/89	Schalk et al.	364	513.5	
	AK	4,833,713	05/23/89	Muroi et al.	381	43	
	AL	4,839,853	06/13/89	Deerwester et al.	364	900	
	AM	4,896,319	01/23/90	Lidinsky et al.	370	60	
	AN	4,922,538	05/01/90	Tchorzewski	381	42	
	AO	4,945,476	07/31/90	Bodick et al.	364	413.02	
	AP	4,953,085	08/28/90	Atkins	364	408	
	AQ	4,972,349	11/20/90	Kleinberger	364	900	
	AR	4,989,248	01/29/91	Schalk et al.	381	42	
	AS	5,007,081	04/09/91	Schmuckal et al.	379	354	

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Foreign Patent Documents

							Translation	
		Document	Date	Country	Class	Subclass	Yes	No

OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)

Examiner [signature] Date Considered 11/22/2004

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with your communication to applicant.

U.S. Department of Commerce, Patent and Trademark Office	Atty Docket No.	Serial No.
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(Use several sheets if necessary)		
	Filing Date	Group
	July 26, 2001	2171

U.S. Patent Documents

*Examiner Initial		Document Number	Date	Name	Class	Subclass	Filing Date If Appropriate
	AT	5,020,107	05/28/91	Rohani et al.	381	43	
	AU	5,054,082	10/01/91	Smith et al.	381	42	
	AV	5,062,074	10/29/91	Kleinberger	364	900	
	AW	5,127,043	06/30/92	Hunt et al.	379	88	
	AX	5,144,672	09/01/92	Kuriki	381	41	
	AY	5,146,439	09/08/92	Jachmann et al.	369	25	
	AZ	5,224,163	06/29/93	Gasser et al.	380	30	
	BA	5,243,643	09/07/93	Sattar et al.	379	88	
	BB	5,247,497	09/21/93	Cohn	369	26	
	BC	5,247,575	09/21/93	Sprague et al.	380	9	
	BD	5,255,305	10/19/93	Sattar	379	34	
	BE	5,274,695	12/28/93	Green	379	88	
	BF	5,278,942	01/11/94	Bahl et al.	395	2	
	BG	5,293,452	03/08/94	Picone et al.	395	2.59	
	BH	5,297,183	03/22/94	Bareis et al.	379	59	
	BI	5,297,194	03/22/94	Hunt et al.	379	88	
	BJ	5,325,421	06/28/94	Hou et al.	379	67	
	BK	5,335,276	08/02/94	Thompson et al.	380	21	
	BL	5,335,313	08/02/94	Douglas	395	2.84	
	BM	5,343,529	08/30/94	Goldfine et al.	380	23	
	BN	5,355,433	10/11/94	Yasuda et al.	395	2.52	
	BO	5,359,508	10/25/94	Rossides	364	401	

Foreign Patent Documents

		Document	Date	Country	Class	Subclass	Translation Yes	Translation No

Examiner [signature] Date Considered 11-22-2004

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U.S. Patent Documents

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	BP	5,365,574	11/15/94	Hunt et al.	379	88	
	BQ	5,388,213	02/07/95	Oppenheimer et al.	395	200	
	BR	5,390,278	02/14/95	Gupta et al.	395	2.52	
	BS	5,410,698	04/25/95	Danneels et al.	395	650	
	BT	5,430,827	07/04/95	Rissanen	395	2.82	
	BU	5,448,625	09/05/95	Lederman	379	67	
	BV	5,452,340	09/19/95	Engelbeck et al.	379	67	
	BW	5,452,341	09/19/95	Sattar	379	88	
	BX	5,452,397	09/19/95	Ittycheriah et al.	395	2.49	
	BY	5,454,030	09/26/95	de Oliveira et al.	379	100	
	BZ	5,463,715	10/31/95	Gagnon	395	2.76	
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	CB	5,479,491	12/26/95	Herrero Garcia et al.	379	88	
	CC	5,479,510	12/26/95	Olsen et al.	380	24	
	CD	5,483,580	01/09/96	Brandman et al.	379	88	
	CE	5,485,370	01/16/96	Moss et al.	364	408	
	CF	5,486,686	01/23/96	Zdybel, Jr. et al.	235	375	
	CG	5,487,671	01/30/96	Shpiro et al.	434	185	
	CH	5,490,251	02/06/96	Clark et al.	395	200.2	
	CI	5,499,288	03/12/96	Hunt et al.	379	88	
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		Document	Date	Country	Class	Subclass	Yes	No

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Examiner	Date Considered 11-23-2004

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT	Applicants	
(Use several sheets if necessary)	Chinn et al.	
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	CR	5,542,046	07/30/96	Carlson et al.	395	186	
	CS	5,544,255	08/06/96	Smithies et al.	382	119	
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	CV	5,550,976	08/27/96	Henderson et al.	395	200.06	
	CW	5,551,021	08/27/96	Harada et al.	395	600	
	CX	5,608,786	03/04/97	Gordon	379	100	
	CY	5,613,012	03/18/97	Hoffman et al.	382	115	
	CZ	5,799,063	08/25/98	Krane	379	67	
	DA	5,5,875,242	02/23/99	Glaser et al.	379	207	
	DB	5,899,975	05/4/99	Nielsen	704	260	
	DC	5,915,001	06/22/99	Uppaluru	379	88.22	
	DD	5,926,180	07/20/99	Shimamura	345	357	
	DE	5,953,392	09/14/99	Rhie et al.	379	88.13	

Foreign Patent Documents

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		Document	Date	Country	Class	Subclass	Yes	No

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Examiner	Date Considered 11-22-2004

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	CC	5,479,510	12/26/95	Olsen et al.	380	24	
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	CE	5,485,370	01/16/96	Moss et al.	364	408	
	CF	5,486,686	01/23/96	Zdybel, Jr. et al.	235	375	
	CG	5,487,671	01/30/96	Shpiro et al.	434	185	
	CH	5,490,251	02/06/96	Clark et al.	395	200.2	
	CI	5,499,288	03/12/96	Hunt et al.	379	88	
	CI	5,510,777	04/23/96	Pilc et al.	340	825.310	

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	CZ	5,799,063	08/25/98	Krane	379	67	
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	DB	5,899,975	05/4/99	Nielsen	704	260	
	DC	5,915,001	06/22/99	Uppaluru	379	88.22	
	DD	5,926,180	07/20/99	Shimamura	345	357	
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Notice of References Cited	Application/Control No. 09/916,095	Applicant(s)/Patent Under Reexamination CHINN ET AL.	
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	I	US-			
	J	US-			
	K	US-			
	L	US-			
	M	US-			

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	P					
	Q					
	R					
	S					
	T					

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*		Include as applicable: Author, Title Date, Publisher, Edition or Volume, Pertinent Pages)
	U	MobilHTML/XML/CSS/HTTP-www.w3.org/Mobile/1998/Workshop/Slide/MEI/mobileHTMLarch.ppt - 07/09/1998
	V	
	W	
	X	

*A copy of this reference is not being furnished with this Office action. (See MPEP § 707.05(a).)
Dates in MM-YYYY format are publication dates. Classifications may be US or foreign.

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SEARCH: O Worldwide ◎ USA **RESULTS IN:** ◎ All languages O English, Spanish

AltaVista found 2 results

www.w3.org/Mobile/1998/Workshop/Slide/MEI/mobileHTMLarch.ppt
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www.w3.org/Mobile/1998/Workshop/Slide/MEI/mobileHTMLarch.ppt

Panasonic slide
Functional Requirements for Mobile WWW Access. A Proposal for Mobile HTML/XML Architecture. Available as Microsoft PowerPoint format **mobileHTMLarch.ppt**.
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mobileHTML/XML/CSS/HTTP for Mobile Web Access

Matsushita Electric Industrial Co., Ltd

- Functional Requirements for mobile Web access

  (Shin'ichi Matsui)

- Mobile Web Access System Architecture

  (Hidetaka Ohto)

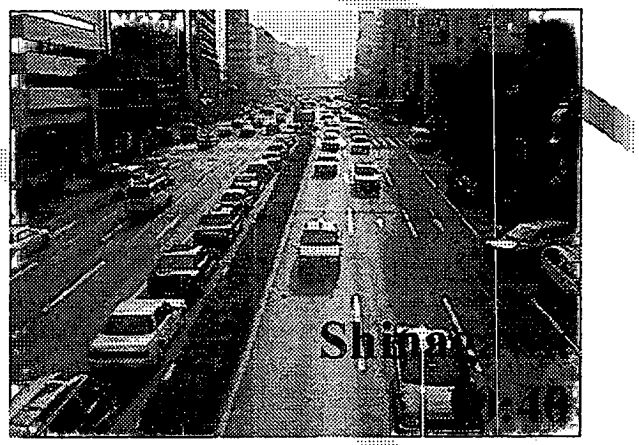
Target of Proposed Mobile Web System (Mobile HTML/XML/CSS/HTTP)

- Terminals covered by Mobile Web System
  - Smart Phones
  - Cellular Phones
  - Pagers
  - PDA
  - Portable PC
  - Navigation Systems, ITS
  - EC

Prospective Applications

- Next Generation Phones
  - Motion Pictures on Web

- ITS (Intelligent Transport Systems)



- EC (Electronic Commerce)

3/27

Requirements for Mobile Web Access

- Mobile Web Access must conform to W3C Standards
  - Web widely used in PC industry and penetrating into consumer industry rapidly based on W3C std.
  - Accessibility to PC Web based on HTML
    - Mobile terminals have to easily access to PC contents
    - Definition of HTML Subset because of mobile terminals' limitation

- Extension for Audio / Visual Communications
  - powerful at real-time/streaming communications
  - media rich presentation using motion pictures, image and text

- Efficient data transmissions
  - narrow bandwidth
  - efficient formats and protocols (HTML/XML/CSS/HTTP)

Mobile Web Access Proposal

Requirement	Std. Item	Proposal
Accessibility	Style Sheets	mobileCSS
AV handling	Application Formats	mobileHTML/XML
Efficient Transmission	Application Protocols	mobileHTTP

Proposal of mobileCSS

- Introduce Style Sheets to realize Accessibility with PC Web
  - sharing PC contents in the mobile environment
  - effective use of existing Web properties
    (contents, authoring tools, servers)
- Separate presentations from structures
  - basic policy of HTML 4.0
  - enables simple, extensible architecture

Proposal of mobileHTML/mobileXML

- Basic Policy is to conform to Web formats (HTML/XML)
  - 1st Step: Compatible with HTML4.0 since HTML widely used
  - Next Generation : Based on XML follow on from mobileHTML
- AV control mechanisms integrated into HTML
  ex. using OBJECT/PARAM/FORM elements

Proposal of mobileHTTP

- Efficient data transmissions
  - Separating contents into templates/messages
  - using MPEG4 object encoding
- Efficient broadcasting
  - Push protocol using broadcasting function

Mobile Web Access System Architecture

Hidetaka Ohto

Matsushita Electric Industrial Co.,Ltd.

9/27

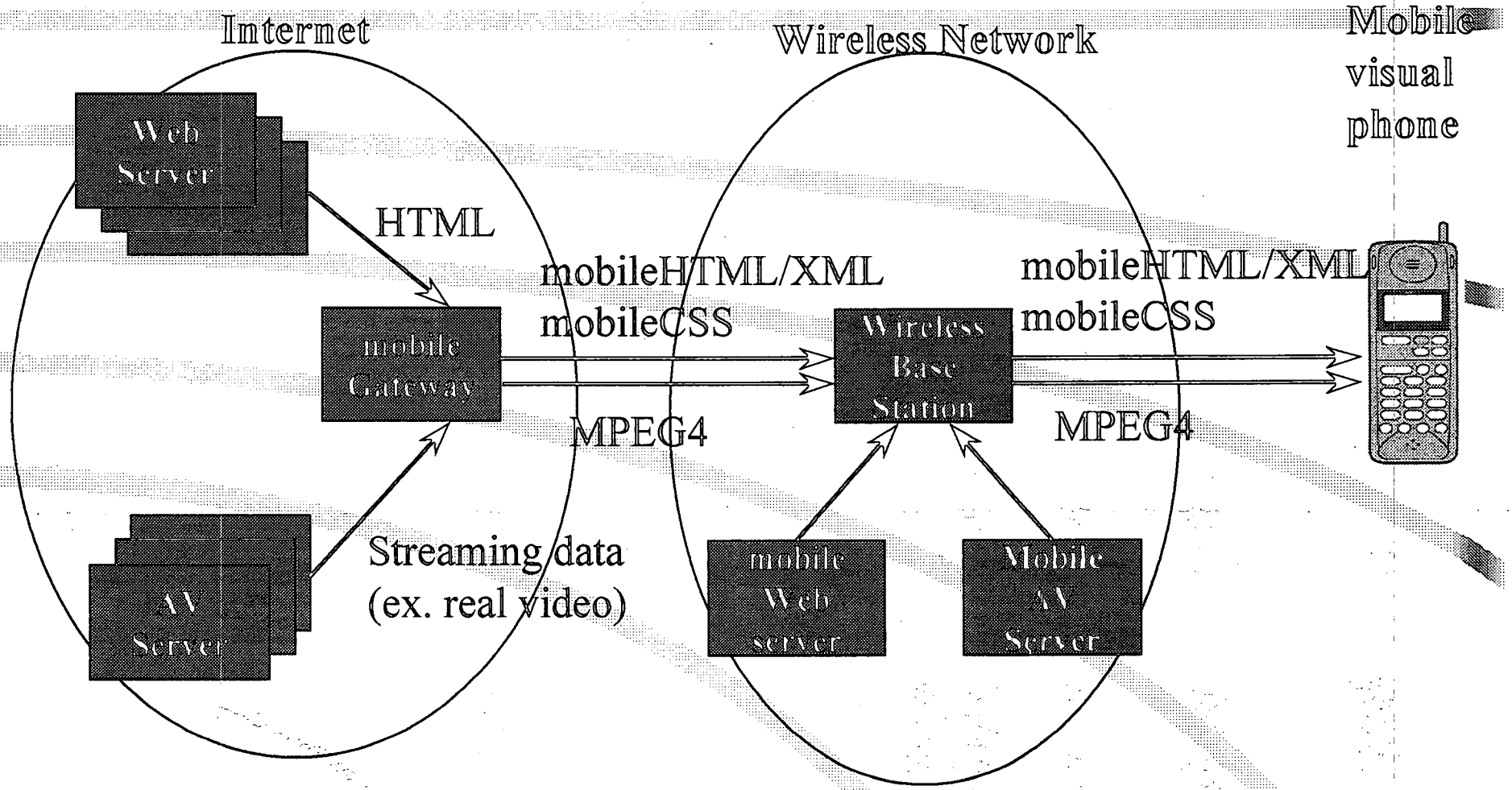
Position

- Develop mobile visual phone(including image and text)
  - Web access
  - AV server access
  - TV phone/video conference

- Propose formats and protocols for total web service
  - mobileHTML/XML
  - mobileCSS
  - mobileHTTP
  - (Scripting)

10/24

Mobile Web Access System Architecture



Formats and protocols for mobile visual service

- mobileHTML
  - HTML compatible subset and extension for AV control
- mobileXML
  - Integration of AV control mechanism follow on from mobileHTML
- mobileCSS
  - Style sheet definition for mobile terminal specific presentation
- mobileHTTP
  - Efficient transmission of streaming/broadcasting data

12/27

mobileHTML/XML(1/6)

Document Type Definition

- mobileHTML
  - HTML compatible subset based on HTML4.0 strict DTD
    - Excludes presentation dependent elements, and event attributes for mouse/keyboard
    - <tt>, <i>, <b>, onclick, ondblclick……
  - AV control extension integrated in HTML/CSS
    - <object>, <param> elements
    - <style> element, id/class attributes
- mobileXML
  - integration of AV control mechanism follow on from mobileHTML
  - simplicity and extensibility

mobileHTML/XML(2/6)

- AV control extension was introduced using "streaming" <object>
  - "streaming" <object> describes AV control sequence based on RTSP
- text/image/video layering
  - defined by CSS2 positioning properties
- AV object layering based on MPEG4
  - also defined by CSS2 positioning properties
  - unit of audio/visual content (ex. the picture of a talking person without the background), scenes are composed of several AV objects.

mobileHTML/XML(3/6)

- mobileHTML AV control extension

1. <object> represents streaming video object
2. <param> represents AV control sequence based on RTSP
3. <form> and <object> are combined by id attribute

Example:

```
<OBJECT class="video" classid="local:rtsp.app" data="rtsp://server/movie1">
<PARAM name="init" value="DESCRIBE;SETUP;PLAY "range:npt=0-120" >
<PARAM name="PICTURESEARCH"  value="PAUSE; PLAY scale:2 " >
</OBJECT>
```

```
<FORM id= "PICTURESEARCH" action="http://next.html" method="POST">
<INPUT  TYPE="SUBMIT" VALUE="picturesearch">
</FORM>
```

mobileHTML/XML (4/6)

- text/image/video layering

  Must support, because mobile terminal has a small screen, and can't use multi windows or frames.

Example:

```
<STYLE type="text/mobilecss">
    .video { z-index: 0 }
    .text1 { z-index: 1; color:red}
    .text2 { z-index: 2; height:192; color:blue}
</STYLE>
...
<OBJECT class="video"  classid="local:rtsp.app" ……..
<P class="text1"> Central Cleaner NOW ON SALE
<P class="text2"> See Spec
```

Layering definition is described by mobileCSS.
z-index is derived from CSS2

mobileHTML/XML (5/6)

- AV object layering based on MPEG4

Example:

```
<STYLE text="text/mobilecss">
    .background { z-index:0 }
    . man       { z-index: 1 }
    .woman      { z-index: 2 }
</STYLE>
<BODY >
  <OBJECT class=background classid="rtsp://server/background">....
  <OBJECT class=man classid="rtsp://server/man">....
  <OBJECT class=woman classid="rtsp://server/woman">....
</BODY>
```

We can use mobileCSS for AV object layering based on MPEG4 in the same manner as text/image/video layering

mobileHTML/XML(6/6)

☐ mobileXML

1. Most elements are inherited from mobileHTML except tag omission rules
2. <layout> is inherited from SMIL
3. <control> represents AV control sequence independent of streaming object
4. <input> indicates streaming object and its control

Example:

```
<layout> <channel id="video" z-index="0"/>
        <channel id="text1"  z-index="1"/>
        <channel id="text2"  height="192" z-index="2"/>
</layout>
```

<layout> is functionally equal to CSS2 positioning properties

```
<control id="picturesearch">
        <pause /> <play  scale=2 />
</control>
```

<control> is useful to change the combination of control and streaming object

```
<video id="movie1" src= "rtsp://server/movie1" channel="video" />
<p channel="text1"> central cleaner now on sale </p>
<form channel="text2">
<input type="button" control="picturesearch" target="movie1" />
</form>
```

mobileCSS(1/4)

- Selective execution of mobile terminal specific presentation
  - –HTML4.0 "media" attribute and CSS2 "@media" type
  - –qualifier extension for more detailed classification
  - –"media. category. device"

Example:

```
<STYLE media= "handheld" type="text/mobilecss">
    @media handheld.phone.ED-PD370S
        { @import url(http://style.com/basic1); }
</STYLE>
```

- Style sheet definition for mobile terminal specific presentation
  - –Template/message framework
  - –Summarization
  - –other features (ex. layering, screen size, colors) are inherited from CSS2

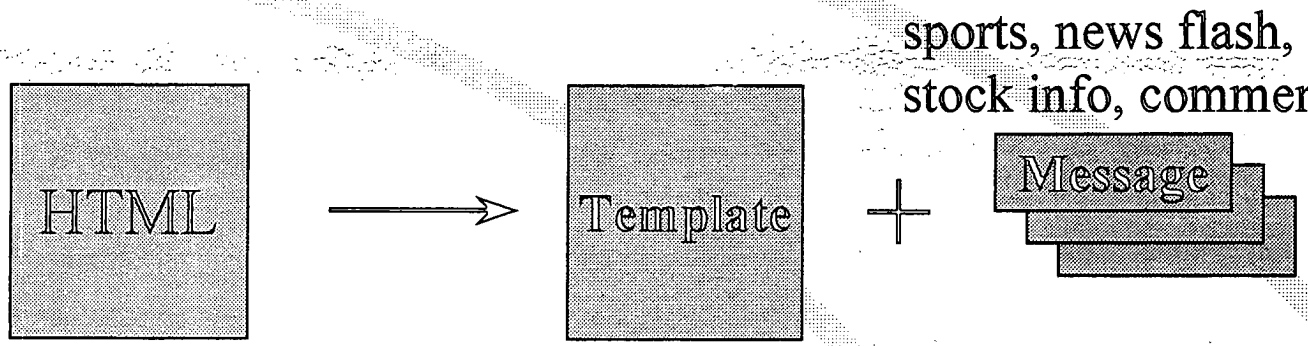
mobileCSS(2/4)

☐ Template/Message Framework

- Reducing transmission data is necessary, because of sending data via narrow band.

- Dividing HTML content into template part and message part.
  - Template : layout framework
  - Message : updating information

For the 1st transmission, template and message are sent together, after 1st transmission, only updating message is sent



mobileCSS(3/4)

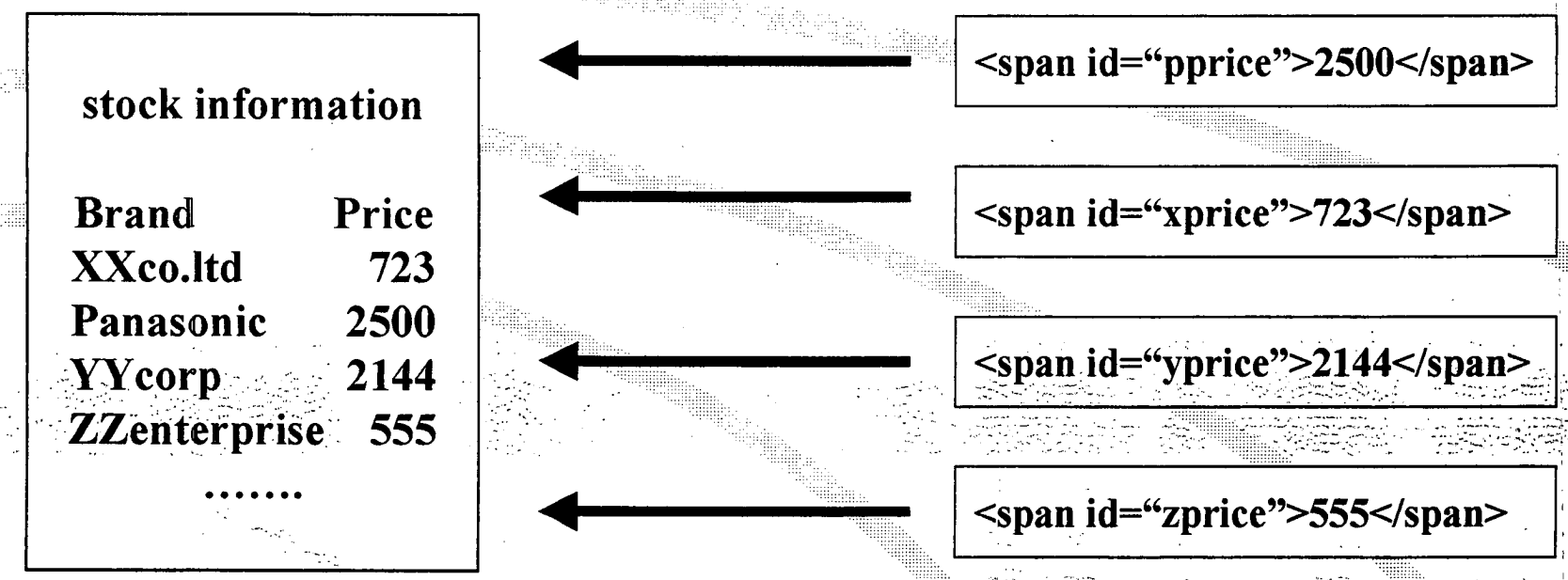
Template = HTML content (ex. stock information)

Message = HTML content with mobileCSS(ex. an updated stock price)

```
#pprice { synthesize-style: overwrite; }
```

Template and message are synthesized

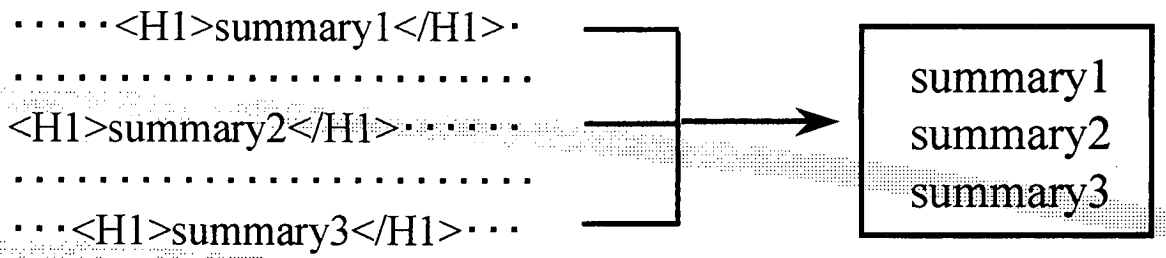
Message

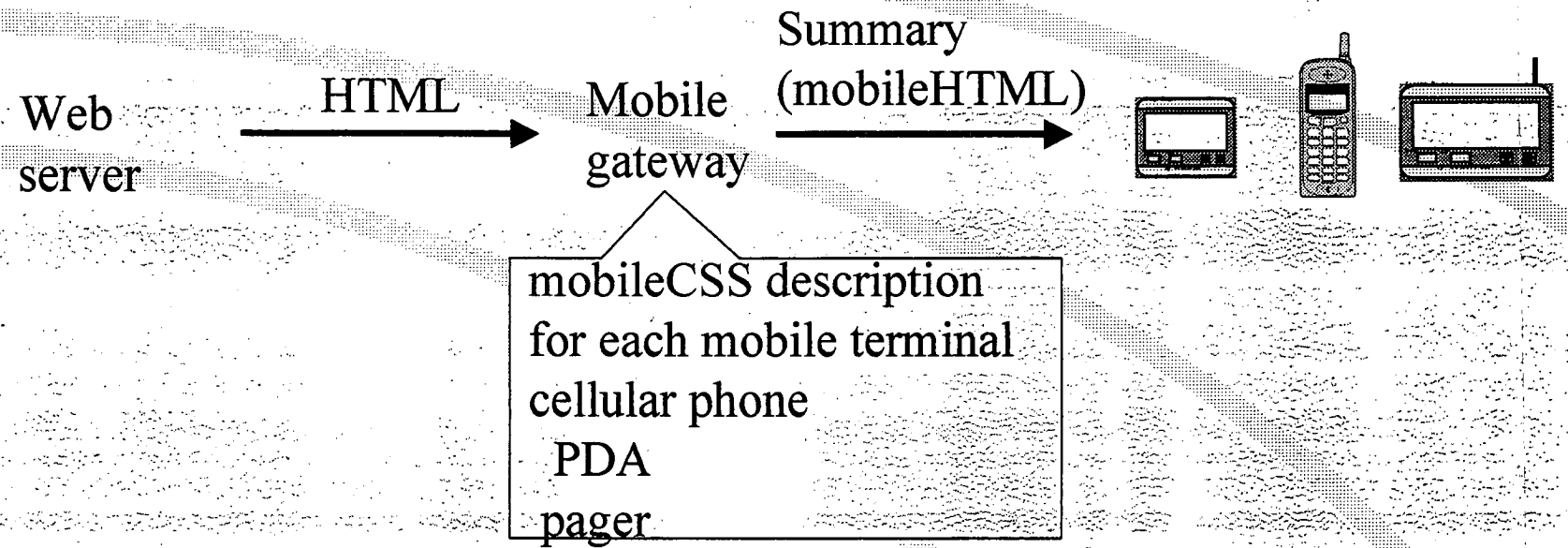


mobileCSS(4/4)

■ Summarization

H1 {aggregate:top}





mobileHTTP(1/3)

- Efficient streaming transmission
  - RTSP extension for layering AV object transmission control
    - based on MPEG4
- Efficient broadcasting
  - HTTP extension for push delivery and broadcasting
    - based on template/message framework

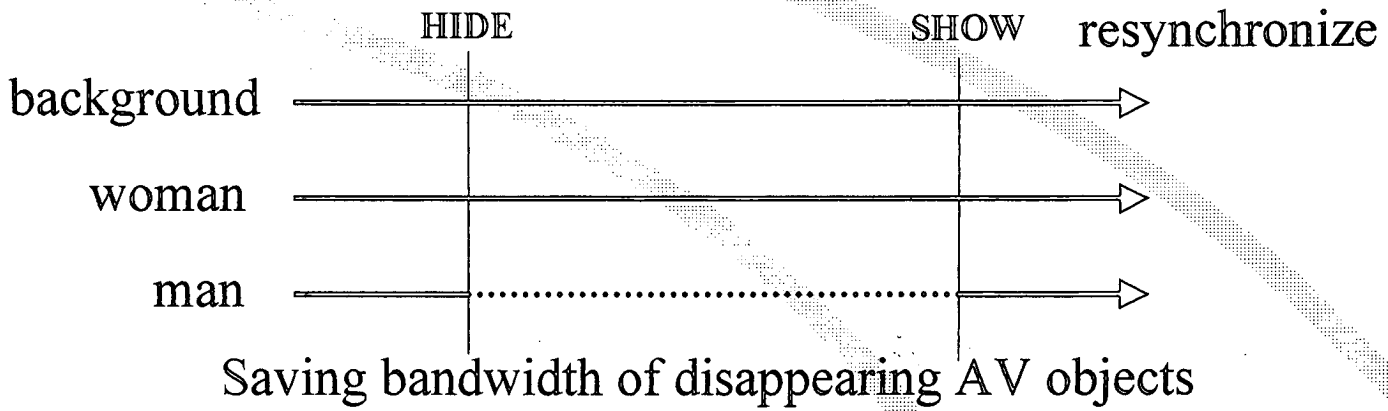
mobileHTTP(2/3)

☐ superimposing streaming transmission control based on MPEG4

```
C->S    DESCRIBE rtsp://foo/twister mobileHTTP/1.0
        Cseq: 1
S->C    mobileHTTP/1.0 200 OK
        Cseq: 1
        Content-type: aplication/sdp
        m=video 0 H324/MPEG4 H263
        a= control:rtsp://foo/twister/background
        m=video 0 H324/MPEG4 H263
        a= control:rtsp://foo/twister/woman
        m=video 0 H324/MPEG4 H263
        a= control:rtsp://foo/twister/man
        .........
C->S    HIDE rtsp://foo/twister/man
        .........
C->S    SHOW rtsp://foo/twister/man
```

description of AV objects

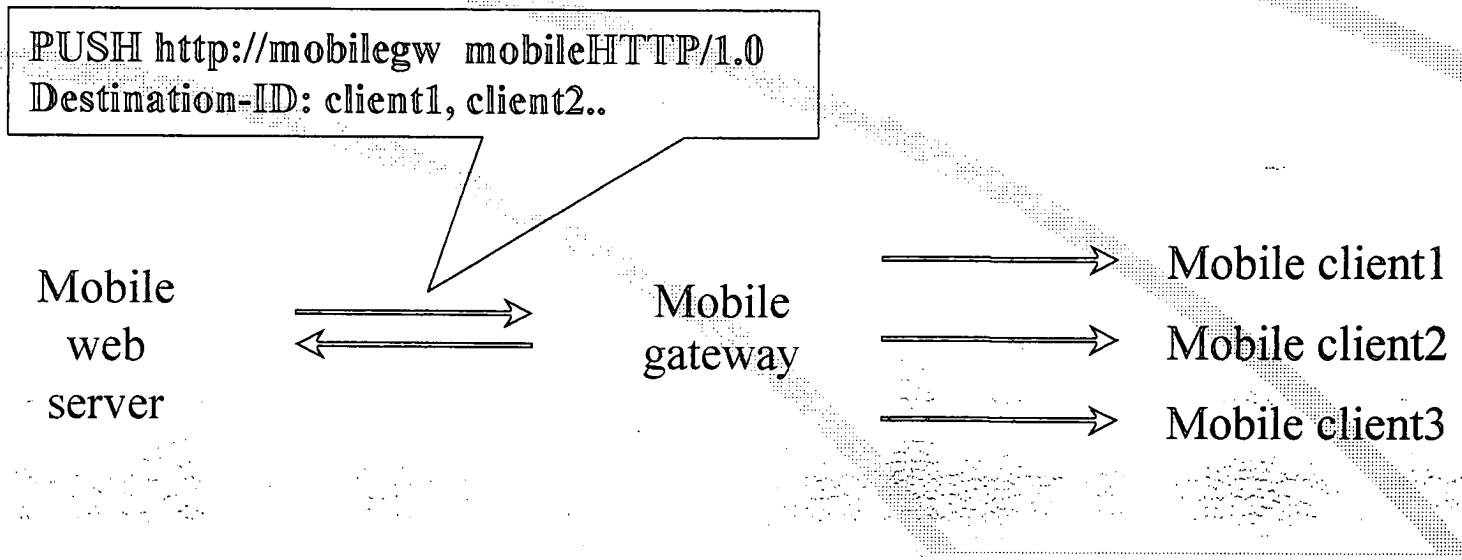
HIDE and SHOW are new extension methods for superimposing streaming transmission control



mobileHTTP(3/3)

- HTTP extension for efficient broadcasting
  - mobile web server requests mobile gateway to broadcast
  - based on template/message dividing format

PUSH method : mobile gateway by the host part of URI
Destination-ID: one of the "whole/group/specified client(s)"



Summary

Standardization items for mobile web access

- mobileHTML/XML
  - HTML compatible subset based on HTML4.0 strict DTD
  - "streaming" <object> control extension
  - AV object layering
  - XML version
- mobileCSS
  - qualifier extension of @media type
  - template/message framework
  - summarization
- mobileHTTP
  - superimposing control based on MPEG4
  - broadcast control

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[Prev] 1 2 3 4 5 6 7 **8** 9 10 11 12 13 14 15 16 17 18 19 20 [Next]

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